

Release notes for ENDF/B Development g-074_W_182
evaluation

ENDF
B-VII.dev

December 2, 2016

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT=7431, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT=7431, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 96 TO 137
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT=7431, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT=7431, MF= 1, MT=451
MOD = 1 OUT OF RANGE 0 - 0 RECORD NUMBER 96
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 3 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 3
SECTION 3/ 3 NOT IN DIRECTORY RECORD NUMBER 139
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 4 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY RECORD NUMBER 178
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 16 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 16
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 214
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 17 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 17
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 233
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 22 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 22
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 242
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 28 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 28 | RECORD NUMBER | 259 |
| SECTION 3/ 28 NOT IN DIRECTORY | | |
8. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 50 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 50 | RECORD NUMBER | 272 |
| SECTION 3/ 50 NOT IN DIRECTORY | | |
9. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 51 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 51 | RECORD NUMBER | 308 |
| SECTION 3/ 51 NOT IN DIRECTORY | | |
10. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 52 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 52 | RECORD NUMBER | 343 |
| SECTION 3/ 52 NOT IN DIRECTORY | | |
11. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 53 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 53 | RECORD NUMBER | 378 |
| SECTION 3/ 53 NOT IN DIRECTORY | | |
12. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 54 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 54 | RECORD NUMBER | 413 |
| SECTION 3/ 54 NOT IN DIRECTORY | | |
13. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 55 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 55 | RECORD NUMBER | 447 |
| SECTION 3/ 55 NOT IN DIRECTORY | | |
14. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 56 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 56 | RECORD NUMBER | 481 |
| SECTION 3/ 56 NOT IN DIRECTORY | | |
15. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 57 (0): Directory (b)

- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 57 | RECORD NUMBER | 514 |
| SECTION 3/ 57 NOT IN DIRECTORY | | |
16. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 58 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 58 | RECORD NUMBER | 547 |
| SECTION 3/ 58 NOT IN DIRECTORY | | |
17. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 59 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 59 | RECORD NUMBER | 580 |
| SECTION 3/ 59 NOT IN DIRECTORY | | |
18. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 60 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 60 | RECORD NUMBER | 613 |
| SECTION 3/ 60 NOT IN DIRECTORY | | |
19. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 61 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 61 | RECORD NUMBER | 645 |
| SECTION 3/ 61 NOT IN DIRECTORY | | |
20. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 62 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 62 | RECORD NUMBER | 677 |
| SECTION 3/ 62 NOT IN DIRECTORY | | |
21. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 63 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 63 | RECORD NUMBER | 709 |
| SECTION 3/ 63 NOT IN DIRECTORY | | |
22. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 64 (0): Directory (b)
- | | | |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 64 | RECORD NUMBER | 740 |
| SECTION 3/ 64 NOT IN DIRECTORY | | |
23. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 65 (0): Directory (b)

- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 65 | |
| | SECTION 3/ 65 NOT IN DIRECTORY | RECORD NUMBER 768 |
24. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 66 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 66 | |
| | SECTION 3/ 66 NOT IN DIRECTORY | RECORD NUMBER 799 |
25. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 67 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 67 | |
| | SECTION 3/ 67 NOT IN DIRECTORY | RECORD NUMBER 829 |
26. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 68 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 68 | |
| | SECTION 3/ 68 NOT IN DIRECTORY | RECORD NUMBER 859 |
27. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 69 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 69 | |
| | SECTION 3/ 69 NOT IN DIRECTORY | RECORD NUMBER 889 |
28. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 70 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 70 | |
| | SECTION 3/ 70 NOT IN DIRECTORY | RECORD NUMBER 918 |
29. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 71 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 71 | |
| | SECTION 3/ 71 NOT IN DIRECTORY | RECORD NUMBER 947 |
30. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT= 91 (0): Directory (b)
- | | | |
|--|---|-------------------|
| | ERROR(S) FOUND IN MAT=7431, MF= 3, MT= 91 | |
| | SECTION 3/ 91 NOT IN DIRECTORY | RECORD NUMBER 976 |
31. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT=102 (0): Directory (b)

- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT=102 | |
| SECTION 3/102 NOT IN DIRECTORY | RECORD NUMBER 1004 |
32. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT=103 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT=103 | |
| SECTION 3/103 NOT IN DIRECTORY | RECORD NUMBER 1043 |
33. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT=104 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT=104 | |
| SECTION 3/104 NOT IN DIRECTORY | RECORD NUMBER 1068 |
34. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT=105 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT=105 | |
| SECTION 3/105 NOT IN DIRECTORY | RECORD NUMBER 1083 |
35. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT=106 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT=106 | |
| SECTION 3/106 NOT IN DIRECTORY | RECORD NUMBER 1098 |
36. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 3, MT=107 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=7431, MF= 3, MT=107 | |
| SECTION 3/107 NOT IN DIRECTORY | RECORD NUMBER 1108 |
37. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 6, MT= 16 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=7431, MF= 6, MT= 16 | |
| SECTION 6/ 16 NOT IN DIRECTORY | RECORD NUMBER 1138 |
38. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 6, MT= 17 (0): Directory (b)
- | | |
|---|--------------------|
| ERROR(S) FOUND IN MAT=7431, MF= 6, MT= 17 | |
| SECTION 6/ 17 NOT IN DIRECTORY | RECORD NUMBER 1291 |
39. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 6, MT= 22 (0): Directory (b)

ERROR(S) FOUND IN MAT=7431, MF= 6, MT= 22
SECTION 6/ 22 NOT IN DIRECTORY RECORD NUMBER 1354

40. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 6, MT= 28 (0): Directory (b)

ERROR(S) FOUND IN MAT=7431, MF= 6, MT= 28
SECTION 6/ 28 NOT IN DIRECTORY RECORD NUMBER 1489

41. Missing a section in directory so your directory is messed up. This error will break everything else
MAT=7431, MF= 6, MT= 91 (0): Directory (b)

ERROR(S) FOUND IN MAT=7431, MF= 6, MT= 91
SECTION 6/ 91 NOT IN DIRECTORY RECORD NUMBER 1597

• **fizcon** Errors:

1. Missing files (probably spectra for outgoing particles)
MAT -1 MF 6 (1): Missing files (a)

ERROR(S) - MISSING SECTIONS IN MAT -1 MF 6
PRESENCE OF FILE 3, MT= 50 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 51 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 52 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 53 REQUIRES AN EQUIVALENT SECTION IN FILE 6
... [18 more lines]

2. Missing files (probably spectra for outgoing particles)
MAT -1 MF 6 (2): Missing files (a)

ERROR(S) - MISSING SECTIONS IN MAT -1 MF 6
PRESENCE OF FILE 3, MT= 102 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 103 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 104 REQUIRES AN EQUIVALENT SECTION IN FILE 6
PRESENCE OF FILE 3, MT= 105 REQUIRES AN EQUIVALENT SECTION IN FILE 6
... [2 more lines]

• **fudge-4.0** Errors:

1. Calculated and tabulated Q values disagree.
reaction label 0: n + W181 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3537826.873779297 eV vs -8.0646e6 eV!

2. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 0: n + W181 / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!

3. Calculated and tabulated Q values disagree.
reaction label 1: n + W181_e1 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3651226.873779297 eV vs -8.178e6 eV!

4. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 1: $n + W181_e1$ / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!
5. Calculated and tabulated Q values disagree.
reaction label 2: $n + W181_e2$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3788726.873779297 eV vs -8.3155e6 eV!
6. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 2: $n + W181_e2$ / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!
7. Calculated and tabulated Q values disagree.
reaction label 3: $n + W181_e3$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3903426.873779297 eV vs -8.4302e6 eV!
8. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 3: $n + W181_e3$ / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!
9. Calculated and tabulated Q values disagree.
reaction label 4: $n + W181_e4$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3923026.873779297 eV vs -8.4498e6 eV!
10. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 4: $n + W181_e4$ / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!
11. Calculated and tabulated Q values disagree.
reaction label 5: $n + W181_e5$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3947026.873779297 eV vs -8.4738e6 eV!
12. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 5: $n + W181_e5$ / Product: n (Error # 0): Missing n dist.

WARNING: Missing distribution (required for all 'n' products)!
13. Calculated and tabulated Q values disagree.
reaction label 6: $n + W181_e6$ (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -3952226.873779297 eV vs -8.479e6 eV!

14. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 6: $n + W181_e6$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
15. Calculated and tabulated Q values disagree.
reaction label 7: $n + W181_e7$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -3988026.873779297 eV vs -8.5148e6 eV!
16. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 7: $n + W181_e7$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
17. Calculated and tabulated Q values disagree.
reaction label 8: $n + W181_e8$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -3995626.873779297 eV vs -8.5224e6 eV!
18. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 8: $n + W181_e8$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
19. Calculated and tabulated Q values disagree.
reaction label 9: $n + W181_e9$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4013326.873779297 eV vs -8.5401e6 eV!
20. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 9: $n + W181_e9$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
21. Calculated and tabulated Q values disagree.
reaction label 10: $n + W181_e10$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4026226.873779297 eV vs -8.553e6 eV!
22. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 10: $n + W181_e10$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
23. Calculated and tabulated Q values disagree.
reaction label 11: $n + W181_e11$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4066426.873779297 eV vs -8.5932e6 eV!

24. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 11: $n + W181.e11$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
25. Calculated and tabulated Q values disagree.
reaction label 12: $n + W181.e12$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4067226.873779297 eV vs -8.594e6 eV!
26. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 12: $n + W181.e12$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
27. Calculated and tabulated Q values disagree.
reaction label 13: $n + W181.e13$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4098326.873779297 eV vs -8.6251e6 eV!
28. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 13: $n + W181.e13$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
29. Calculated and tabulated Q values disagree.
reaction label 14: $n + W181.e14$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4137226.873779297 eV vs -8.664e6 eV!
30. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 14: $n + W181.e14$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
31. Calculated and tabulated Q values disagree.
reaction label 15: $n + W181.e15$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4147026.873779297 eV vs -8.6738e6 eV!
32. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 15: $n + W181.e15$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
33. Calculated and tabulated Q values disagree.
reaction label 16: $n + W181.e16$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4180626.873779297 eV vs -8.7074e6 eV!

34. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 16: $n + W181.e16$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
35. Calculated and tabulated Q values disagree.
reaction label 17: $n + W181.e17$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4199526.873779297 eV vs -8.7263e6 eV!
36. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 17: $n + W181.e17$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
37. Calculated and tabulated Q values disagree.
reaction label 18: $n + W181.e18$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4213026.873779297 eV vs -8.7398e6 eV!
38. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 18: $n + W181.e18$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
39. Calculated and tabulated Q values disagree.
reaction label 19: $n + W181.e19$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4252826.873779297 eV vs -8.7796e6 eV!
40. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 19: $n + W181.e19$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
41. Calculated and tabulated Q values disagree.
reaction label 20: $n + W181.e20$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4264126.873779297 eV vs -8.7909e6 eV!
42. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 20: $n + W181.e20$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
43. Calculated and tabulated Q values disagree.
reaction label 21: $n + W181.e21$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4299526.873779297 eV vs -8.8263e6 eV!

44. Outgoing distributions are required for neutrons in the ENDF format (you do want to do neutronics, right?)
reaction label 21: $n + W181.e21$ / Product: n (Error # 0): Missing n dist.
- WARNING: Missing distribution (required for all 'n' products)!
45. Calculated and tabulated Q values disagree.
reaction label 22: $n + W181.c$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -4299526.873779297 eV vs -8.8263e6 eV!
46. Calculated and tabulated Q values disagree.
reaction label 23: $n[multiplicity:'2'] + W180$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -10218620.23632812 eV vs -1.4745e7 eV!
47. Calculated and tabulated Q values disagree.
reaction label 24: $n[multiplicity:'3'] + W179$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -18630853.30905151 eV vs -2.3157e7 eV!
48. Calculated and tabulated Q values disagree.
reaction label 25: $n + H1 + Ta180$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -10144555.58905029 eV vs -1.4671e7 eV!
49. Calculated and tabulated thresholds don't agree
reaction label 26: $W182 + gamma$ / Cross section: (Error # 0): Threshold mismatch
- WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.e6 eV!
50. Calculated and tabulated Q values disagree.
reaction label 27: $n + He4 + Hf177$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -1327072.137542725 eV vs -5.8545e6 eV!
51. Calculated and tabulated Q values disagree.
reaction label 28: $H1 + Ta181.s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -2567798.156951904 eV vs -7.0951e6 eV!
52. Calculated and tabulated Q values disagree.
reaction label 29: $H2 + Ta180.s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -7919989.488128662 eV vs -1.2446e7 eV!
53. Calculated and tabulated Q values disagree.
reaction label 30: $H3 + Ta179.s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -8303954.892608643 eV vs -1.2834e7 eV!
54. Calculated and tabulated Q values disagree.
reaction label 31: $He3 + Hf179.s$ (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -8179741.530761719 eV vs -1.2706e7 eV!

55. Calculated and tabulated Q values disagree.
reaction label 32: He4 + Hf178.s / Cross section: (Error # 0): Q mismatch

WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 5.e6 eV!
 WARNING: Calculated and tabulated Q-values disagree: 6298884.015625 eV vs 1.7714e6 eV!

• xsectplotter Warnings:

1. Encountered runtime warning in xsectplotter or Fudge or matplotlib
(Error # 2): RuntimeWarning

/usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/font_manager.py:273: U
 /usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:524: Runtime

2. Encountered runtime warning in xsectplotter or Fudge or matplotlib
*/usr/local/lib/python2.7/site-packages/matplotlib-1.5.3-py2.7-linux-x86_64.egg/matplotlib/pyplot.py:524:
 RuntimeWarning: More than 20 figures have been opened. Figures created through the
 pyplot interface ('matplotlib.pyplot.figure') are retained until explicitly closed and may
 consume too much memory. (To control this warning, see the rcParam 'figure.max_open_warning').
 (Error # 0): RuntimeWarning*

max_open_warning, RuntimeWarning)